

36

The
**UTILITY
VISE**

Cuts the Cost

JACKSON'S UTILITY VISE

Patented April 30, 1912

For Drill Presses, Millers,
Shapers, etc. Die, Mould
and Tool Makers

C. J. JACKSON, PROP.
EASTON, PA.



Bolts and Clamps
practically eliminated
Its capacity covers a wide
range of work and saves time and
tools and insures the best results
It has a distinctive advantage
over all other vises now
on the market



REPRESENTED
BY
C. J. JACKSON,
EASTON, PA.

Brown Engineering Company

Licensed Manufacturers and
Distributing Agents

Reading, Pennsylvania

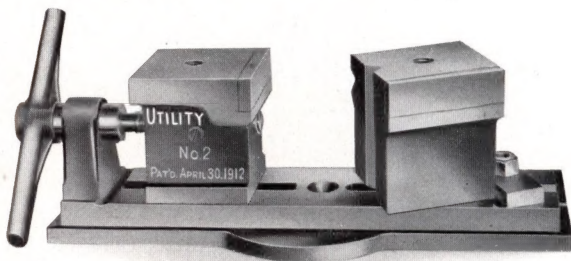


Fig. 1

Jackson's Utility Vise

THE Utility Vise was originally designed for drill press work. Its adaptability for holding a large variety of material in many different positions without the use of clamps or bolts placed in it in advance of all other vises. Its value is inestimable in the tool room and for general work. As a bench vise for die mould and jig workers it has no equal and can easily be adapted to a wide range of work. The various styles of supplementary jaws add great advantages to the capacity and variety of work the vise will hold.

This circular for the first time gives the complete specifications of the new size (No. 1, see page 3) which has just been added to our line. Having had several inquiries for a smaller tool than our regular or standard size.

The new size is especially adapted for sensitive and the small size drill presses, and lighter work in general.

We have also added three new designs of supplementary jaws for both sizes of vises. (See page 7 and 8.)

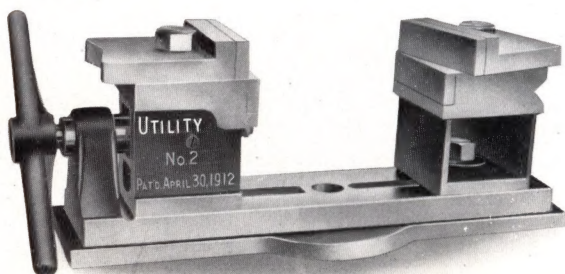


Fig. 2

Description

THE ENGRAVING shows a general idea of the vise. The design is rigidly constructed with a large capacity between the jaws. The bed is flanged around its entire base, the center being enlarged with a circular flange permitting the base to be fastened to the machine table at any position.

The front jaw is screw operating and has a travel of about $\frac{1}{3}$ of the full opening of the vise. It is operated with a steel screw and bronze nut. The jaw is held in position by the tongue which passes through the slot in the bed and is secured on the bottom with a plate and screws. The gripping surface is a removable steel facing.

The four faced revolving rear jaw is in form of a hollow cube, one side being left open to admit a wrench for operating the nut on the binding screw which passes through the "T" slot in the bed and the bottom of the jaw. The hole in the jaw is drilled central permitting it to revolve on the bolt so that it may be fastened to the bed in any position. All sides are machined. One end has a steel face corresponding with the front jaw. Another is machined full depth for use as an angle plate. This side also has a vertical "V" groove extending full depth which permits centering and holding rounds, squares, octagons or similar stock. The opposite side also has a "V" groove at right angle to the vertical groove and parallel with the bed for drilling in work at a right angle.

The adaptability of the jaws singly or combined permits securing and releasing the work quickly. Only a slight movement of the screw is necessary. Large or small work may be operated on easily and rapidly. A great variety of work heretofore done on a lathe may be done on a drill press more economically with this vise.

SPECIFICATIONS

	No. 1	No. 2
Length of bed	11"	19 $\frac{3}{4}$ "
Total length over screw projection	12 $\frac{1}{2}$ "	22 $\frac{1}{2}$ "
Greatest width over base flange . .	4 $\frac{3}{8}$ "	7 $\frac{1}{2}$ "
Standard height	3 $\frac{9}{16}$ "	6 $\frac{1}{2}$ "
Greatest height with supl'tary jaws .	4 $\frac{5}{8}$ "	8 $\frac{1}{4}$ "
Depth of jaws	2 $\frac{1}{4}$ "	4 $\frac{1}{2}$ "
Square of jaws	2 $\frac{3}{4}$ "	4 $\frac{1}{2}$ "
Front jaw adjustment with screw . .	1 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "
Back jaws slides from centre of bed .	2 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "
Full opening between jaws	3 $\frac{1}{4}$ "	8 $\frac{1}{2}$ "
Full opening between supl'tary jaws .	4"	9 $\frac{1}{2}$ "
Total weight without supl'tary jaws	20 lbs.	82 lbs.
Total weight with supplementary jaws	22 $\frac{1}{2}$ lbs.	88 $\frac{1}{2}$ lbs.
Dimensions box for export	14 $\frac{1}{2}$ "x6"x6"	24"x9"x8"
Price plain, steel faced	35 lbs.	100 lbs.
Price fitted with supplementary jaws	\$20.00	\$26.00
Price with supl'tary jaws, steel faced	23.50	31.00
	25.00	33.00

Complete with wrenches f.o.b. factory. Write for discount. Special designed supplementary jaws, all steel, aluminum, bronze and copper. Prices quoted on application.

The following illustrations show a few of the unusual shapes the Vise will hold

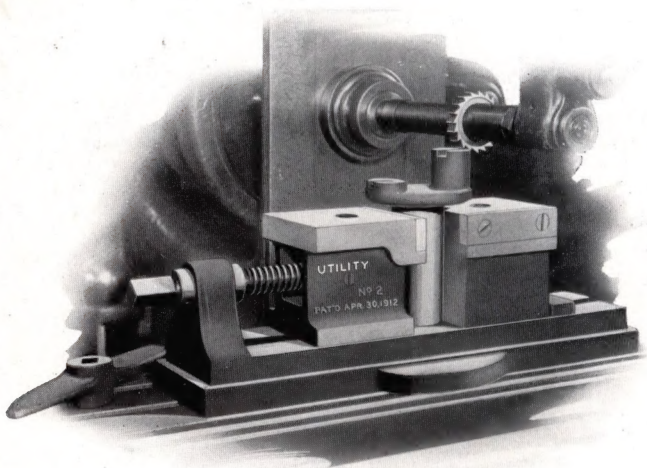


Fig. 3

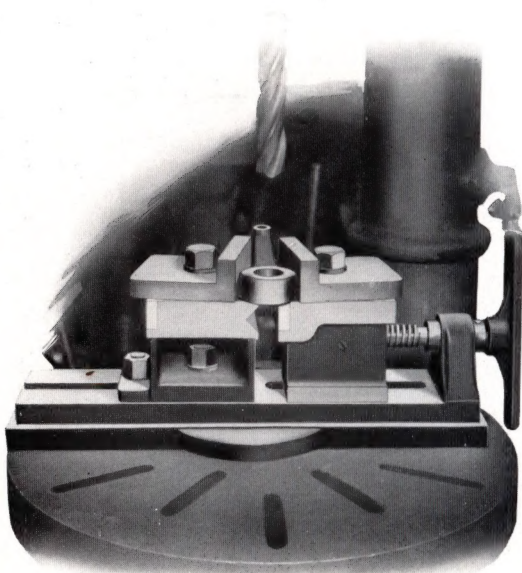


Fig. 4

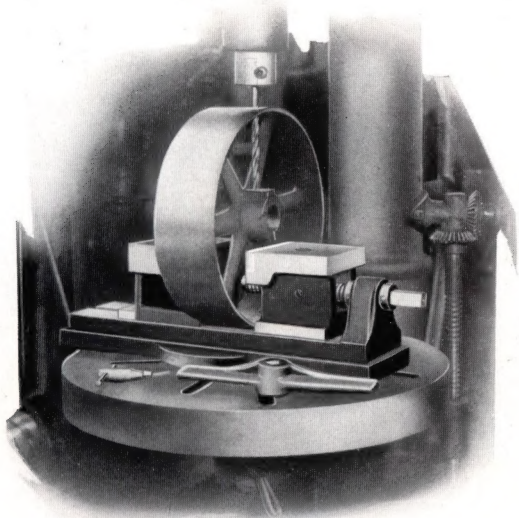


Fig. 5

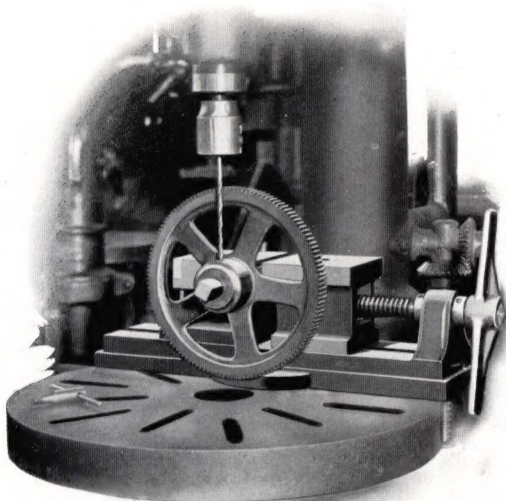


Fig. 6

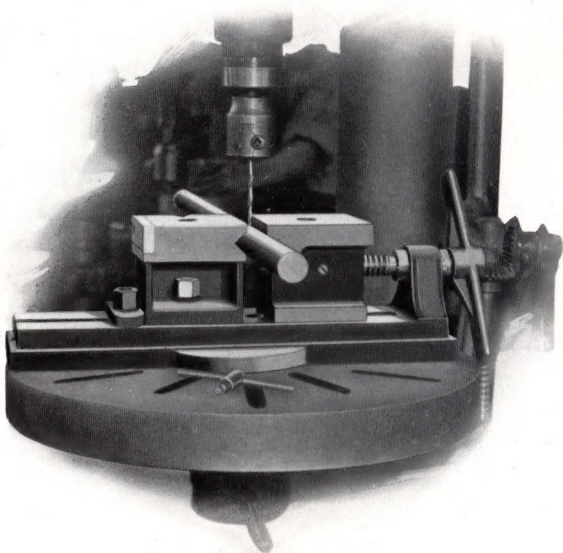


Fig. 7

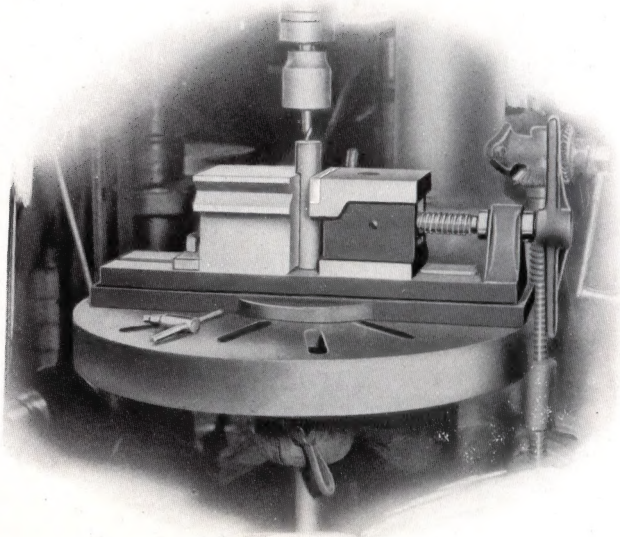
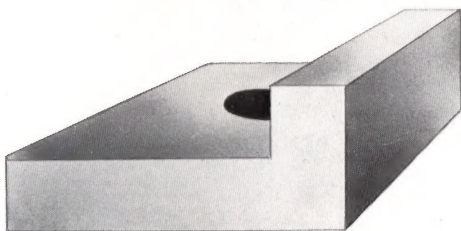


Fig. 8

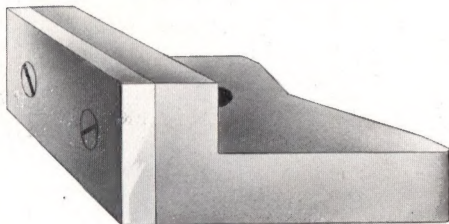
Supplementary Jaws

SUPPLEMENTARY JAWS, usually made of cast iron, with or without steel faces, add most materially to the capacity and advantages of the vise. These jaws can be made cheaply in various forms when necessary, avoiding in many cases the making of costly jigs and other fixtures.

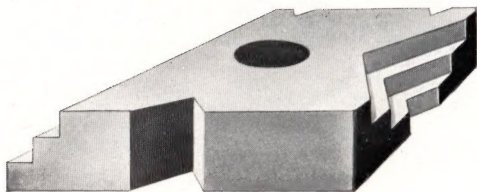
We furnish to order all steel, brass, bronze or aluminum Jaws of any pattern, as shown. They can be ordered with the purchase of the Vise or at any future time. Their use will reduce your cost and increase the output.



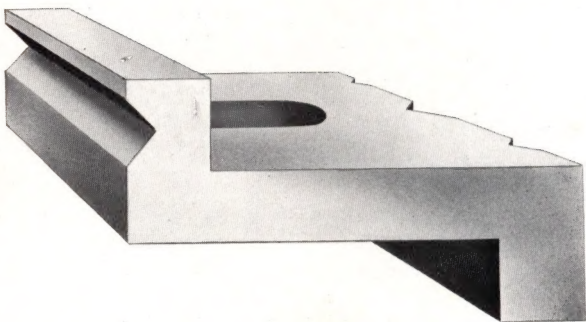
A



B



C



D



***As the Chuck is important to
the Lathe
So is the Utility Vise to
the Drill Press***

